

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application of:

Application No.:

Group Art Unit:

Filed:

Examiner:

For: FACILITATED TRANSPORT  
MEMBRANES COMPRISING POROUS  
SUPPORTED MEMBRANES AND SOLID  
POLYMER ELECTROLYTES CONSISTING  
OF A TRANSITION METAL SALT AND A  
POLYMER HAVING DOUBLE CARBON  
BONDS

Attorney Docket No.:

**POWER OF ATTORNEY BY ASSIGNEE  
AND EXCLUSION OF INVENTOR(S) UNDER 37 C.F.R. 3.71**

Assistant Commissioner for Patents

Washington, D.C. 20231

Sir:

The undersigned assignee of the entire interest in the above-identified subject application hereby appoints: S. Leslie Misrock(Reg. No. 18872), Berj A. Terzian(Reg. No. 20060), David Weild, III(Reg. No. 21094), Jonathan A. Marshall(Reg. No. 24614), Barry D. Rein(Reg. No. 22411), Stanton T. Lawrence, III(Reg. No. 25736), Charles E. McKenney(Reg. No. 22795), Philip T. Shannon(Reg. No. 24278), Francis E. Morris(Reg. No. 24615), Charles E. Miller(Reg. No. 24576), Gidon D. Stern(Reg. No. 27469), John J. Lauter, Jr(Reg. No. 27814), Brian M. Poissant(Reg. No. 28462), Brian D. Coggio(Reg. No. 27624), Rory J. Radding(Reg. No. 28749), Stephen J. Harbulak(Reg. No. 29166), Donald J. Goodell(Reg. No. 19766), James N. Palik(Reg. No. 25510), Thomas E. Friebel(Reg. No. 29258), Laura A. Coruzzi(Reg. No. 30742), Jennifer Gordon(Reg. No. 30753), Allan A. Fanucci(Reg. No. 30256), Geraldine F. Baldwin(Reg. No. 31232), Victor N. Balancia(Reg. No. 31231), Samuel B. Abrams(Reg. No. 30605), Steven I. Wallach(Reg. No. 35402), Marcia H. Sundeen(Reg. No. 30893), Paul J. Zegger(Reg. No. 33821), Edmond R. Bannon(Reg. No. 32110), Bruce J. Barker(Reg. No. 33291), Adriane M. Antler(Reg. No. 32605), Thomas G. Rowan(Reg. No. 34419), James G. Markey(Reg. No. 31636), Thomas D. Kohler(Reg. No. 32797), Scott D. Stimpson(Reg. No. 33607), Gary S. Williams(Reg. No. 31066), William S. Galliani(Reg. No. 33885), Ann L. Gisolfi(Reg. No. 31956), Todd A. Wagner(Reg. No. 35399), Scott B. Familant(Reg. No. 35514,

POWER OF ATTORNEY

Kelly D. Talcott(Reg. No. 39582), Francis D. Cerrito(Reg. No. 38100), Anthony M. Insogna(Reg. No. 35203), Brian M. Rothery(Reg. No. 35340), Brian D Siff(Reg. No. 35679), and Alan Tenenbaum(Reg. No. 34939), all of Pennie & Edmonds LLP, whose addresses are 1155 Avenue of the Americas, New York, New York 10036, 1667 K Street N.W., Washington, DC 20006 and 3300 Hillview Avenue, Palo Alto, CA 94304, all of Pennie & Edmonds LLP(PTO Customer No. 20583), as its attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, said appointment to be to the exclusion of the inventors and their attorney(s) in accordance with the provisions of 37 C.F.R.3.71, provided that, if any one of these attorneys ceases being affiliated with the law firm of Pennie & Edmonds LLP as partner, counsel, or employee, then the appointment of that attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

An assignment of the entire interest in the above-identified subject application:

- [ ] was recorded on \_\_\_\_\_ at reel/frame \_\_\_\_\_ / \_\_\_\_\_.  
[ x ] is submitted herewith for recording.

Please direct all correspondence for this application to customer no. 20583.

ASSIGNEE: Korea Institute of Science and Technology

Signature: Shin, Kyun Seung

Typed Name: SHIN, Kyun Seung

Position>Title: Patent Manager

Address: 39-1 Hawolgok-dong, Seongbuk-gu,  
Seoul 136-791, Republic of Korea

Date: September 1, 2003

**DECLARATION FOR NON-PROVISIONAL PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are stated below at 201 et seq. beneath my name.

I believe I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

**FACILITATED TRANSPORT MEMBRANES COMPRISING  
POROUS SUPPORTED MEMBRANES AND SOLID POLYMER ELECTROLYTES  
CONSISTING OF A TRANSITION METAL SALT AND  
A POLYMER HAVING DOUBLE CARBON BONDS**

and for which a patent specification:

- is attached hereto and includes amendment(s) filed on *(if applicable)*
- was filed in the United States on \_\_\_\_\_ as Application No. \_\_\_\_\_  
with amendment(s) filed on *(if applicable)*
- was filed as PCT International Application No. on and was amended under PCT Article 19 on *(if applicable)*

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 (a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED PRIOR TO THE FILING DATE OF THE APPLICATION			
APPLICATION NO.	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
10-2003-0022837	KR	11/04/2003	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
			YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
			YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

PROVISIONAL APPLICATION NUMBER	FILING DATE

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose information known to me which is material to patentability as defined Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

NON-PROVISIONAL APPLICATION SERIAL NO.	FILING DATE	STATUS		
		PATENTED	PENDING	ABANDONED

\*for use only when the application is assigned to a company, partnership or other organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

2 0 1	FULL NAME OF INVENTOR	LAST NAME KIM	FIRST NAME Jong Hak	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Republic of Korea	COUNTRY OF CITIZENSHIP Republic of Korea	
	POST OFFICE ADDRESS	STREET Hanyang Apt. 6-1003, Ssangmun 3-dong, Dobong-gu	CITY Seoul	STATE OF COUNTRY Republic of Korea	ZIP CODE 132-741
	SIGNATURE OF INVENTOR 201 <i>Jong Hak Kim</i>			DATE September 1, 2003	
2 0 2	FULL NAME OF INVENTOR	LAST NAME KANG	FIRST NAME Yong Soo	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Republic of Korea	COUNTRY OF CITIZENSHIP Republic of Korea	
	POST OFFICE ADDRESS	STREET Dong-a Echoville Apt. 107-302, 101 Sangwolgok-dong, Seongbuk-gu	CITY Seoul	STATE OF COUNTRY Republic of Korea	ZIP CODE 136-784
	SIGNATURE OF INVENTOR 202 <i>Y.S. Kang</i>			DATE September 1, 2003	
2 0 3	FULL NAME OF INVENTOR	LAST NAME JUNG	FIRST NAME Bumsuk	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Republic of Korea	COUNTRY OF CITIZENSHIP Republic of Korea	
	POST OFFICE ADDRESS	STREET KIST Apt. A202, 39-1 Hawolgok-dong, Seongbuk-gu	CITY Seoul	STATE OF COUNTRY Republic of Korea	ZIP CODE 136-791
	SIGNATURE OF INVENTOR 203 <i>Bumsuk Jung</i>			DATE September 1, 2003	
2 0 4	FULL NAME OF INVENTOR	LAST NAME WON	FIRST NAME Jongok	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Republic of Korea	COUNTRY OF CITIZENSHIP Republic of Korea	
	POST OFFICE ADDRESS	STREET Hansin Apt. 103-602, Cheongyangni 1-dong, Dongdaemun-gu	CITY Seoul	STATE OF COUNTRY Republic of Korea	ZIP CODE 130-775
	SIGNATURE OF INVENTOR 204 <i>Jongok Won</i>			DATE September 1, 2003	

2 0 5	FULL NAME OF INVENTOR	LAST NAME MIN	FIRST NAME Byoung Ryul	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Republic of Korea	COUNTRY OF CITIZENSHIP Republic of Korea	
	POST OFFICE ADDRESS	STREET 84 Daesin-dong, Seodaemun-gu	CITY Seoul	STATE OF COUNTRY Republic of Korea	ZIP CODE 120-160
	SIGNATURE OF INVENTOR 205 <i>Byoung Ryul Min</i>			DATE September 1, 2003	
2 0 6	FULL NAME OF INVENTOR	LAST NAME KIM	FIRST NAME Hoon Sik	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Republic of Korea	COUNTRY OF CITIZENSHIP Republic of Korea	
	POST OFFICE ADDRESS	STREET Daewoo Apt. 106-1305, 1021 Jeongneung-dong, Seongbuk-gu	CITY Seoul	STATE OF COUNTRY Republic of Korea	ZIP CODE 136-767
	SIGNATURE OF INVENTOR 206 <i>An Cirrus</i>			DATE September 1, 2003	